

IN THE CLAIMS

1. (Currently Amended) A rocket engine transport, comprising:
  - a trailer having a long axis which extends along a lengthwise dimension of the trailer, wherein the trailer comprises a track which extends along the lengthwise dimension of the trailer;
  - a tail support member coupled to the trailer and having a notch configured to receive a pin attached to a distal ~~affixed near a first~~ end of the rocket engine; and
  - a chock assembly comprising a chock pivotably coupled to a trolley, wherein the chock is configured to accept the rocket engine, wherein the trolley is coupled to the trailer via the track, and wherein the trolley is configured to move laterally within the track in a direction substantially parallel to the long axis, and wherein the chock is configured to pivot about a rotation axis that is substantially perpendicular to the long axis of the trailer in response to a force applied against the chock by the rocket engine as a second end of the rocket engine is elevated to a position that is substantially perpendicular to the long axis.
2. (Original) The transport of claim 1 wherein the chock assembly further comprises a bearing assembly pivotably coupling the chock to the trolley.
3. (Original) The transport of claim 2 wherein the chock assembly further comprises a cradle assembly comprising a support bracket coupled to the chock.
4. (Original) The transport of claim 3 wherein the support bracket comprises a trunnion configured to cooperate with the bearing assembly to thereby allow the chock to pivot with respect to the trolley.

5. (Previously Amended) The transport of claim 4, wherein the bearing assembly comprises a first bearing assembly, and wherein the cradle assembly comprises a first cradle assembly, and wherein the chock assembly further comprises:
- a second bearing assembly; and
  - a second cradle assembly coupled to the chock and having a second trunnion configured to interface with the second bearing assembly.
6. (Original) The transport of claim 5 further comprising a shaft interconnecting the first and second cradle assemblies.
7. (Currently Amended) A rocket engine transport comprising:
- a trailer having a track running parallel to a longitudinal axis which extends along a lengthwise dimension of the trailer, wherein the trailer comprises a track which extends along the lengthwise dimension of the trailer;
  - a tail support member coupled to the trailer and having a notch configured to rotatably receive a pin attached to a distal ~~affixed near a first~~ end of a rocket engine; and
  - a chock assembly comprising:
    - a chock,
    - a trolley coupled to the trailer via the track, and wherein the trolley is configured to move laterally within the track in a direction substantially parallel to the longitudinal axis,
    - a pair of bearing assemblies rotatably coupling the chock to the trolley, and
    - a pair of cradle assemblies, each cradle assembly comprising a support bracket coupled to the chock and having a trunnion configured to interact with the bearing assembly,
- wherein the chock is configured to accept the rocket engine and to pivot on the trunnion about a rotation axis that is substantially perpendicular to the longitudinal axis in response to a force applied against the chock by the rocket engine as a second end of the rocket engine is

elevated to a position that is substantially perpendicular to the longitudinal axis.

8. (Currently Amended) A chock assembly for transporting a rocket engine on a transport having a longitudinal axis which extends along a lengthwise dimension of the transport, wherein the transport comprises a track which extends along the lengthwise dimension of the transport, the chock assembly comprising:
  - a trolley portion designed to be coupled to the transport via the track, and wherein the trolley portion is configured to move laterally within the track in a direction substantially parallel to the longitudinal axis of the transport;
  - a chock having a curved portion configured to receive the rocket engine; and
  - a hinge portion configured to pivotably couple the chock to the trolley portion such that the chock is free to rotate about an axis in response to a force applied against the chock by the rocket engine when one end of the rocket engine is elevated to a position that is substantially perpendicular to the longitudinal axis.
9. (Original) The chock assembly of claim 8 wherein the trolley portion is further configured to interact with the transport to move along the longitudinal axis of the transport during elevation of the rocket engine.
10. (Previously Amended) The chock assembly of claim 8 wherein the hinge portion comprises a bearing assembly rotatably coupling the chock to the trolley portion.
11. (Original) The chock assembly of claim 10 further comprising a cradle assembly comprising a support bracket coupled to the chock and having a trunnion configured to interact with the bearing assembly.

12. (Original) The chock assembly of claim 11 further comprising:
- a second bearing assembly;
  - a second cradle assembly coupled to the chock and having a second trunnion configured to interface with the second bearing assembly; and
  - a shaft interconnecting the first and second cradle assemblies.
13. (Currently Amended) A chock assembly for supporting a rocket engine on a transport having a longitudinal axis which extends along a lengthwise dimension of the transport, wherein the transport comprises a track which extends along the lengthwise dimension of the transport, the chock assembly comprising:
- a trolley portion designed to be coupled to the transport via the track, and wherein the trolley portion is configured to mate with the transport via the track and to interact with the transport to move laterally within the track in a direction substantially parallel to the longitudinal axis of the transport during elevation of the rocket engine;
  - a chock having a curved portion configured to receive the rocket engine; and
  - a hinge portion having a bearing assembly configured to pivotably couple the chock to the trolley portion such that the chock rotates about a pivot point on the trolley portion in response to a force applied against the chock by the rocket engine when one end of the rocket engine is elevated to a position that is substantially perpendicular to the longitudinal axis.
14. (Original) The chock assembly of claim 13 further comprising a cradle assembly comprising a support bracket coupled to the chock and having a trunnion configured to interact with the bearing assembly.

15. (Currently Amended) An object transport, comprising:

- a trailer having a longitudinal axis which extends along a lengthwise dimension of the trailer, wherein the trailer comprises a track which extends along a lengthwise dimension of the trailer;
- a tail support member coupled to the trailer and having a notch configured to receive a pin attached to a distal ~~near a first~~ end of an object; and
- a chock assembly comprising a chock and a trolley coupled to the trailer via the track, and wherein the trolley is configured to move laterally within the track in a direction substantially parallel to the longitudinal axis of the trailer, and wherein the chock is configured to accept the object and to pivot about a pivot point on the trolley about a rotation axis that is substantially perpendicular to the longitudinal axis in response to a force applied against the chock by the object as a second end of the object is elevated to a position that is substantially perpendicular to the longitudinal axis.

16. (Currently Amended) An object transport, comprising:

- a trailer having a track running parallel to a longitudinal axis which extends along a lengthwise dimension of the trailer, wherein the trailer comprises a track which extends along a lengthwise dimension of the trailer;
- a tail support member coupled to the trailer and having a notch configured to rotatably receive a pin attached to a distal ~~affixed near a first~~ end of an object; and
- a chock assembly comprising a chock, a trolley coupled to the trailer via the track, and wherein the trolley is configured to move laterally within the track in a direction substantially parallel to the longitudinal axis of the trailer, a pair of bearing assemblies rotatably coupling the chock to the trolley, and a pair of cradle assemblies, each cradle assembly comprising a support bracket coupled to the chock and having a trunnion configured to interact with the bearing assembly, wherein the chock is configured to

accept the object and to pivot about a rotation axis that is substantially perpendicular to the longitudinal axis in response to a force applied against the chock by the object as a second end of the object is elevated to a position that is substantially perpendicular to the longitudinal axis.

17. (Currently Amended) A chock assembly for supporting an object on a transport having a longitudinal axis which extends along a lengthwise dimension of the transport, wherein the transport comprises a track which extends along the lengthwise dimension of the transport, the chock assembly comprising:
  - a trolley portion designed to be coupled to the transport via the track, and wherein the trolley portion is configured to mate with the transport via the track and to interact with the transport to move laterally within the track in a direction substantially parallel to the longitudinal axis;
  - a chock having a support portion configured to receive the object; and
  - a hinge portion having a bearing assembly configured to pivotably couple the chock to the trolley portion such that the chock rotates about a pivot point on the trolley portion in response to a force applied against the chock by the object when one end of the object is elevated to a position that is substantially perpendicular to the longitudinal axis.
18. (Cancelled)
19. (Cancelled)
20. (Cancelled)
21. (Cancelled)
22. (New) The rocket engine transport of claim 7, wherein the chock further comprises an edge, and wherein the chock pivots with the engine about the rotation axis to maintain

substantially flush contact with the rocket engine as the second end of the rocket engine is elevated to distribute weight of the rocket engine across the chock to prevent localized loading on the edge of the chock

23. (New) The rocket engine transport of claim 7, wherein the tail support member and the chock move along the track until the rocket engine is fully erect.